

DAFTAR PUSTAKA

AbdulWhab, H.M., Al-Saffar, A., Mahdi, O.A., Alameri, R.B. 2024. The impact of insulin resistance and glycaemic control on insulin-like growth factor-1 in patients with type 2 diabetes: a cross-sectional study. *Clin. Diabetes Endocrinol.*, 10(1):1–11.

ADA. 2024. Diagnosis and Classification of Diabetes: Standards of Care in Diabetes—2024. *Diabetes Care*, 47(Suppl.1):S20–S42.

Ahuja, V., Kadowaki, T., Evans, R.W., Kadota, A. 2015. Comparison of HOMA-IR, HOMA- β % and disposition index between US white men and Japanese men in Japan: the ERA JUMP study. *Diabetologia*, 58:265–271.

Alberti, K.G.M.M., Eckel, R.H., Grundy, S.M., Zimmet, P.Z., Cleeman, J.I., Donato, K.A., Fruchart, J., James, W.P.T., Loria, C.M., Smith, S.C. 2009. Harmonizing the Metabolic Syndrome International Atherosclerosis Society; and International Association for the Study of Obesity. *Circulation*, 120:1640–1645.

Awal, A., Ahmed, F.U. 2021. Metabolic Syndrome Among Physicians: A Pilot Study from Chattogram, Bangladesh. *Chattogram Maa-O-Shishu Hosp. Med. Coll. J.*, 20(2):65–68.

Baez-duarte, B.G., Sánchez-, M.D.C., Pérez-fuentes, R., Zamora-ginez, I., Leonchavez, B.A., Revilla-monsalve, C., Islas-andrade, S., Guerrero-romero, F., Madero, A., Escobedo-de-la-peña, J., Gonzalez-ortiz, M., Rascon-pacheco, A. 2010. β -cell function is associated with metabolic syndrome in Mexican subjects. *Dovepress J.*, 3:301–309.

Barret, K., Brooks, H., Boitano, S., Barman, S. 2010. *Ganong's Review of Medical Physiology 23rd Edition: Chapter 21. Endocrine Functions of the Pancreas and Regulation of Carbohydrate Metabolism.* 23rd edn. *Mc Graw-Hill Med.* 23rd edn. United States of America: Mc Graw-Hill Medical.

Basodan, N., Al Mehmadi, Abdulaziz E, Al Mehmadi, Abdullah E, Aldawood, S.M., Hawsawi, A., Fatini, F., Mulla, Z.M., Nawwab, W., Alshareef, A., Almhadi, A.H., Ahmed, A., Bokhari, A., Alzahrani, A.G. 2022. Septic Shock: Management and Outcomes. *Cureus*, 14(12).

Baul, S.K., Parvin, D., Hossain, S.M.R., Hadiuzzaman, M., Mollah, F.H., Hoque, M.M. 2018. Evaluation of Some Predictors of Metabolic Syndrome in An Important Group of Health Care Providers of Bangladesh. *Bangladesh J Med Biochem*, 11(1):26–35.

Bener, A., Yousafzai, M.T., Darwish, S., Al-hamaq, A.O.A.A., Nasralla, E.A., Abdul-ghani, M. 2013. Obesity Index That Better Predict Metabolic Syndrome: Body Mass Index, Waist Circumference, Waist Hip Ratio, or Waist Height Ratio. *J. of Obesity*, 1–9.

Besson, A., Tarpin, A., Flaudias, V., Brousse, G., Laporte, C., Benson, A., Navel,

V. 2021. Smoking Prevalence among Physicians: A Systematic Review and Meta-Analysis. *Int. J. Environ. Res. Public Heal.*, 18(13328).

Bonadonna, R.C., Cucinotta, D., Fedele, D., Riccardi, G., Tiengo, A. 2006. The metabolic syndrome is a risk indicator of microvascular and macrovascular complications in diabetes: Results from Metascreen, a multicenter diabetes clinic-based survey. *Diabetes Care*, 29(12):2701–2707.

Bovolini, A., Garcia, J., Andrade, M.A., Duarte, J.A. 2020. Metabolic Syndrome Pathophysiology and Predisposing Factors Authors. *Int J Sport. Med*, 42(3):199–214.

Burrage, E., Marshall, K.L., Santanam, N., Chantler, P.D. 2018. Cerebrovascular dysfunction with stress and depression. *Proc. IEEE 2007 Int. Interconnect Technol. Conf. - Dig. Tech. Pap.*, 4(2):43–53.

Canuto, R., Pattussi, M.P., Block, J., Macagnan, A., Henn, R.L., Teresa, M., Olinto, A. 2015. Metabolic syndrome in fixed-shift workers. *Rev Saude Pública*, 49(30):1–8.

Chandola, T., Brunner, E., Marmot, M. 2006. Chronic stress at work and the metabolic syndrome: Prospective study. *Br. Med. J.*, 332(7540):521–524.

Chang, J., Huang, P., Lin, Yen-kuang, Lin, Ching-en, Lin, Chien-min, Shieh, Y., Lin, Ying-chin, Hospital, W.F., Hospital, W.F., Hospital, S.H., Hospital, S.H., Hospital, W.F. 2015. Association Between Sleep Duration and Sleep Quality, and Metabolic Syndrome in Taiwanese Police Officers. *Int. J. Occup. Med. Environmental Heal.*, 28(102):1011–1023.

Chasens, E.R., Imes, C.C., Kariuki, J.K., Luyster, F.S., Morris, J.L., DiNardo, M.M., Godzik, C.M., Jeon, B., Yang, K. 2021. Sleep and Metabolic Syndrome. *Nurs. Clin. North Am.*, 56(2):203–217.

Chou, L., Li, C., Hu, S.C. 2014. Job stress and burnout in hospital employees: comparisons of different medical professions in a regional hospital in Taiwan. *BMJ Open*, 4(e004185):1–7.

Dizaji, B.F. 2018. Diabetes & Metabolic Syndrome: Clinical Research & Reviews. *Diabetes Metab. Syndr. Clin. Res. Rev.*, 12(5):783–789.

Endukuru, C.K., Gaur, G.S., Yerrabelli, D., Sahoo, J. 2020. Cut-off Values and Clinical Utility of Surrogate Markers for Insulin Resistance and Beta-Cell Function to Identify Metabolic Syndrome and Its Components among Southern Indian Adults. *J. Obes. Metab. Syndr.*, 29:281–291.

Fahed, G., Aoun, L., Zerdan, Morgan Bou, Allam, S., Zerdan, Maroun Bou, Bouferraa, Y., Assi, H.I. 2022. Metabolic Syndrome: Updates on Pathophysiology and Management in 2021.

Festi, D., Schiumerini, R., Eusebi, L.H., Marasco, G., Taddia, M., Colecchia, A. 2014. Gut microbiota and metabolic syndrome. *World J. Gastroenterol.*, 20(43):16079–16094.

Hyun, Y. 2020. Relationship between Metabolic Syndrome, Metabolic Syndrome Score, Insulin Resistance and Beta Cell Function in Korean Adults with Obesity. *Korean Soc. Clin. Lab. Sci.*, 52(4):327–334.

James, M., Varghese, T.P., Vijayan, A., Anagha, P.P., Muhas, C., Hyder, M. 2019. Link between Metabolic Syndrome and Diabetes Mellitus : A Pathophysiological Implication, 8(11):1935–1940.

JNC. 2004. *The Seventh Report of the Joint National Committee on Prevention, Detection, Evaluation, and Treatment of High Blood Pressure*. NIH Publ. United Stat.

Kahn, S.E. 2003. The relative contributions of insulin resistance and beta-cell dysfunction to the pathophysiology of Type 2 diabetes. *Diabetologia*, 46:3–19.

Katsimardou, A., Imprialos, K., Stavropoulos, K., Sachinidis, A., Doulas, M., Athyros, V. 2019. Hypertension in Metabolic Syndrome: Novel Insights. *Curr. Hypertens. Rev.*, 15:1–7.

Kim, J.Y., Yi, E.S. 2018. Analysis of the relationship between physical activity and metabolic syndrome risk factors in adults with intellectual disabilities. *J. Exerc. Rehabil.*, 14(4):592–597.

Kokubo, Y., Okamura, T., Yoshimasa, Y., Miyamoto, Y., Kawanishi, K., Kotani, Y., Okayama, A., Tomoike, H. 2008. Impact of metabolic syndrome components on the incidence of cardiovascular disease in a general urban Japanese population: The suita study. *Hypertens. Res.*, 31(11):2027–2035.

Koopman, A.D.M., Rauh, S.P., Riet, E. Van, Groeneveld, L., Heijden, A.A. Van Der, Elders, P.J., Dekker, J.M., Nijpels, G., Beulens, J.W., Rutters, F. 2017. The Association between Social Jetlag, the Metabolic Syndrome, and Type 2 Diabetes Mellitus in the General Population: The New Hoorn Study. *J. Biol. Rhythms*, 32(4):359–368.

Kumar, H., Mishra, M., Bajpai, S., Pokhria, D., Arya, A.K., Singh, R.K., Tripathi, K. 2013. Correlation of insulin resistance, beta cell function and insulin sensitivity with serum sFas and sFasL in newly diagnosed type 2 diabetes. *Acta Diabetol.*, 50(4):511–518.

Kuo, W. chin, Bratzke, L.C., Oakley, L.D., Kuo, F., Wang, H., Brown, R.L. 2019. The association between psychological stress and metabolic syndrome: A systematic review and meta-analysis. *Obes. Rev.*, 20(11):1651–1664.

Kurniawan, A. Wirahadikusumah, M. Lipoeto, N. 2010. Penilaian HOMA-IR dan HOMA-B pada penderita diabetes melitus tipe 2 setelah intervensi terapi. *Indones. J. Clin. Pathol. Med. Lab.*, 16(3).

Lee, Y.-C., Lee, Y.-H., Chuang, P.-N., Kuo, C.-S., Lu, C.-W., Yang, K.-C. 2020. The utility of visceral fat level measured by bioelectrical impedance analysis in predicting metabolic syndrome. *Obes. Res. Clin. Pract.*, 14(6):1–5.

Leung, P.S. 2010. Physiology of the pancreas. *Adv. Exp. Med. Biol.*, 690:13–27.

Li, J., Pega, F., Ujita, Y., Brisson, C., Clays, E., Descatha, A., Ferrario, M.M., Godderis, L., Iavicoli, S., Landsbergis, P.A., Metzendorf, M.I., Morgan, R.L., Pachito, D. V., Pikhart, H., Richter, B., Roncaioli, M., Rugulies, R., Schnall, P.L., Sembajwe, G., et al. 2020. The effect of exposure to long working hours on ischaemic heart disease: A systematic review and meta-analysis from the WHO/ILO Joint Estimates of the Work-related Burden of Disease and Injury. *Environ. Int.*, 142(105739):1–38.

Liu, N., Cao, D., Wu, Y., Wang, Y. 2022. Development of Electrochemiluminescence Immunosensor based Sandwich Structure Composites for Determination of Serum Insulin Level in Athletes. *Int. J. Electrochem. Sci.*, 17(220211):1–16.

Lobelo, F., Quevedo, I.G. De. 2016. The Evidence in Support of Physicians and Health Care Providers as Physical Activity Role. *Am. J. Lifestyle Med.*, 10(1):36–52.

Manjareeka, M., Mishra, S., Nayak, Prakash K., Patro, S., Mishra, J., Dash, S.C. 2018. Metabolic syndrome among doctors: A pilot study from odisha. *Asian J. Pharm. Clin. Res.*, 11(10):294–297.

Manjareeka, M., Mishra, S., Nayak, Prakash K., Patro, S., Mishra, J., Dash, S.C. 2018. Metabolic syndrome among doctors: A pilot study from odisha. *Asian J. Pharm. Clin. Res.*, 11(10):294–297.

Maphayi, M.R. 2023. The stability of C-peptide and insulin in plasma and serum samples under different storage conditions. *Clin. Chem. Lab. Med.*, 61(12):2150–2158.

Marcovina, S., Bowsher, R.R., Miller, W.G., Staten, M., Myers, G., Caudill, S.P., Campbell, S.E., Steffes, M.W. 2007. Standardization of Insulin Immunoassays: Report of the American Diabetes Association Workgroup. *Clin. Chem.*, 53(4):711–716.

Matsuzawa, Y., Funahashi, T., Nakamura, T. 2011. The Concept of Metabolic Syndrome: Contribution of Visceral Fat Accumulation and Its Molecular Mechanism. *J. Atheroscler. Thromb.*, 18(8):629–639.

Matthews, D.R., Hosker, J.R., Rudenski, A.S., Naylor, B.A., Treacher, D.F., Turner, R.C., Infirmary, R. 1985. Homeostasis model assessment: insulin resistance and beta cell function from fasting plasma glucose and insulin concentrations in man. *Diabetologia*, 28:412–419.

Mccracken, E., Monaghan, M., Sreenivasan, S. 2017. Pathophysiology of the metabolic syndrome. *Clin. Dermatol.*, 36(1):14–20.

Meerarani, P., Badimon, J., Zias, E., Fuster, V., Moreno, P. 2006. Metabolic Syndrome and Diabetic Atherothrombosis: Implications in Vascular Complications. *Curr. Mol. Med.*, 6(5):501–514.

Moreira, G.C., Cipullo, J.P., Ciorlia, L.A.S., Cesarino, C.B., Vilela-Martin, J.F. 2014. Prevalence of metabolic syndrome: Association with risk factors and

Wong, P.M., Hasler, B.P., Kamarck, T.W., Muldoon, M.F., Manuck, S.B. 2015. Social Jetlag, Chronotype, and Cardiometabolic Risk. *J Clin Endocrinol Metab*, 1–9.

Wulandari, S.R., Dewi, A.S., Ruella, N., Utami, S.W. 2024. Review: Metode-Metode Pemeriksaan Glukosa Darah. *Pharm. Sci. J.*, 3(01):85–95.

Xiaopeng, L., Benjamin, O., F, T.M., L, C.C., Y, C.B.M. 2023. Prevalence of metabolic syndrome in the United States. *Postgrad. Med. J.*, (March):985–992.

Yamaoka, K., Tango, T. 2012. Effects of lifestyle modification on metabolic syndrome: A systematic review and meta-analysis. *BMC Med.*, 10(138):1–10.

Yeh, W., Chuang, H., Lu, M., Tzeng, I., Chen, J. 2018. Prevalence of metabolic syndrome among employees of a taiwanese hospital varies according to profession. *Medicine (Baltimore)*, 97(31):1–5.

Yoon, H. 2020. Relationship between Metabolic Syndrome, Metabolic Syndrome Score, Insulin Resistance and Beta Cell Function in Korean Adults with Obesity. *Korean J Clin Lab Sci.*, 52(4):327–334.

Yu, W., Sun, S., Fu, Q. 2025. The role of short-chain fatty acid in metabolic syndrome and its complications: focusing on immunity and inflammation. *Front. Immunol.*, 16:1–23.

Zhang, M., Zhou, J., Yang, L.-D., Gui, X.-M., Huang, J., Luo, K.-H., Huang, H.-J. 2018. Interference of Exogenous Insulin on Insulin Detection Test by Electrochemiluminescence Immunoassay. *Sichuan Da Xue Xue Bao Yi Xue Ban*, 49(6):924–928.